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Inaugural Editorial: Trends in Plant Biology

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Plants are the foundation of life on Earth, playing essential roles in ecosystems, agriculture, and human well-being. They provide food, oxygen, raw materials, and a wealth of bioactive compounds that sustain health, drive industry, and promote environmental stability. The study of plants encompassing molecular, physiological, developmental, ecological, and biotechnological dimensions continues to illuminate the intricate mechanisms that sustain life and adapt to global challenges such as climate change, food security, and sustainable development.

In recent decades, plant biology has advanced at an extraordinary pace. Technological advances in genomics, transcriptomics, metabolomics, and genome editing have transformed our understanding of plant systems. These innovations have enabled the deciphering of complex regulatory networks underlying plant growth, stress responses, and productivity, while also empowering the development of crops with enhanced resilience and nutritional value. Yet, despite the rapid expansion of plant research, there remains a continuous need for accessible, open platforms that disseminate high-quality, peer-reviewed discoveries to a global audience. To address this need, Trends in Plant Biology (TPB) was launched as an international, open-access, online-only journal devoted to publishing cutting-edge research and thought-provoking insights across all areas of plant science. Our mission is to bridge the gap between fundamental research and applied research, fostering interdisciplinary dialogue and collaboration among scientists worldwide.

Trends in Plant Biology welcomes original research articles, reviews, perspectives, methods, resources, and commentaries covering topics including but not limited to molecular biology, genetics, genomics, physiology, development, biotechnology, plant-environment interactions, and ecology. We particularly encourage submissions that explore emerging frontiers such as integrative omics, synthetic biology, system biology, and plant-microbiome interactions, as well as innovative applications in sustainable agriculture and environmental biotechnology.

As Executive Editor, I am honored to lead this initiative with a dedicated team of Associate Editors and an internationally recognized Editorial Board. Together, we are committed to maintaining rigorous peer review, timely publication, and adherence to the highest ethical standards prescribed by Committee on Publication Ethics (COPE) (https://publicationethics.org). We are also proud to align with the Declaration on Research Assessment (DORA), ensuring transparent and responsible evaluation of scientific contributions.

Published by Trends Academics (www.trendsacademics.com), an independent, golden open access publisher, Trends in Plant Biology upholds the principles of open science, ensuring that all articles are freely and permanently available to the global research community. Our publisher's commitment to quality, integrity, and diversity reflects our shared vision for inclusive and equitable scientific advancement.

On behalf of the Editorial Board and the Trends Academics team, I warmly invite researchers from all disciplines of plant biology to contribute their most exciting discoveries to Trends in Plant Biology. Your contributions will help shape us to establish Trends in Plant Biology as a premier venue for advancing plant science and its impact on society. We also welcome suggestions and feedback from the scientific community to further refine our mission and enhance our service to the evolving needs of researchers worldwide.

CONFLICTS OF INTEREST

The author declares no conflicts of interest.

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